

## ABSTRACT OF THE DISCLOSURE

An automated warehouse system row cart includes a  
lifter that uses cams to raise and lower pallets. Three  
5 symmetrical cam lobes are cut into a hollow cylinder. Three  
matching cam lifters ride these lobes and are attached to an  
elevator plate. A stepper motor running in one direction is  
used to raise and lower the elevator plate by virtue of the  
action between the cam lobes and lifters.